



## Technical Offer

Egyptian European Power Technology "ATOS" is specialized in the manufacture of power generating units since 1988.

Through years of development, we have formed an integrated chain starting from production, sales, and maintenance to customer service.

To meet the clients' diesel generator requirements, ATOS has set up and implemented a well-regulated management system target towards competitive prices, excellence in quality and reputable service in long-run plan.

### The offer include the following;-

- Gen-set ATP1.65
- Warranty.
- After Sales Service.

Gen-set :	Model :	ATP1.65			
	Rated power:	Prime Power ( PRP )		Standby rating (ESP)	
		KVA	KW	KVA	KW
		65	52	71.5	57.2

## Specification

<b>GENERATING SET Frequency</b>	50 Hz
<b>VOLTAGE</b>	380 V
<b>PHASES</b>	Three
<b>POWER FACTOR</b>	0.80 PF
<b>Daily fuel tank</b>	sufficient for 8 h operation at prime power
<b>Battery</b>	Lead acid
<b>Gen-set construction</b>	Gen-set Mounted on a base frame with integral anti-vibration mountings and lifting points. The Gen-Set has standard safety labels

ENGINE :	
<b>Manufacturer</b>	Perkins
<b>Model</b>	1104A-44TG1
<b>Origin</b>	UK
<b>Eng. Rate prime power</b>	79.9 BHP – 59.6 KWM
<b>Cycle</b>	Four stroke
<b>Number of cylinders</b>	4 vertical in-line
<b>Speed</b>	1500 RPM
<b>Combustion system</b>	direct injection
<b>Cooling system</b>	Water Cooled
<b>Fuel Consumption</b>	14.8 L/H @ prime power
<b>Electrical System</b>	12 V

The engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1.

## ALTERNATOR :

<b>Manufacturer</b>	Stamford
<b>Model</b>	UCI224F
<b>Origin</b>	UK
<b>Prime Rated Power</b>	72.5 KVA – 58 KW
<b>Insulation Class</b>	Class (H)
<b>Temp. rise Class</b>	Class (H)
<b>Ambient Temperature</b>	40 °C
<b>Degree of Protection</b>	IP 23
<b>Power Factor</b>	0.8 PF
<b>Voltage Output 50 Hz</b>	400 V
<b>No of Phases</b>	3
<b>No of Bearings</b>	Single bearing
<b>No of Poles</b>	4
<b>Efficiency</b>	89.9 %
<b>Control System</b>	Self-Excited

Stamford industrial generators meet the requirements of BS EN 60034 and the relevant section of other international standards such as BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, and AS1359.

## The Control Panel:

### Construction:

- The control panel will be flexibly set mounted with a front opening door with protection equivalent to IP42.
- The panel is made of steel sheet with electrostatic paint and totally isolation.
- The panel designed to be manually, automatically operated and also can be at off mode for safety and maintenance.

### Gen set circuit breaker:

Three poles circuit breaker (100 A) provides thermal and magnetic protection in case of overload or short-circuit conditions

### The panel contains DSE 6010 digital control unit

- Auto Start Control Module
- Measure, protect and indicate the following:

Control functions:	
Auto mode	Sleep mode
Off mode	Manual mode
Emergency stop switch	Fault History
Cycle cranking	LED indicating lamp
Time delay Start / stop (cool down)	Digital output voltage regulation
U/O Voltage sensor	U/O Frequency sensor

Engine Monitoring Equipment:	
Oil pressure	Engine temperature
Engine speed	Plant battery volts
Running hours	Intake manifold temperature
Alternator Monitoring Equipment:	
Mains Volts (Ph-Ph/Ph-N)	Generator Ampere (L1, L2, L3)
Generator Volts (L-L / L-N)	Generator kVA, kWh
Generator Frequency (Hz)	Power factor
Generator kW as % of rated kW setting	kVAR

Alarms	
Over and Under Speed	Over Current
Low and High Battery Volt	Under / Over Generator Voltage
Start and Stop Failure	Over Current
Charge fail	Low Oil Pressure
Emergency stop	High engine temperature
kW overload	Unbalanced load



## Warranty:

- The Offered engines and attachments are warranted against faulty of manufacturing for a period of **One year** from delivery date or **1000 working hours** whichever is closer
- Atos 's Warranty obligations hereunder shall exclude all consumable items, including but not limited to oil, grease, fuel, belts and filters, which will be provided by the customer or purchased by the customer

## Warranty shall not cover the following:

- Defects caused or effected by either the materials supplied by the customer or from a design requested by the customer
- Defects caused by lack of care, insufficient inspection or maintenance, handling or operation by un-qualified persons or improper use of the equipment
- Natural disaster such as earthquakes, floods, tempests, hurricanes, lightning or any other natural disaster.

## Liabilities:

- The Customer shall notify ATOS, in writing, of any defects have appeared and shall give Atos every opportunity to inspect and remedy them.
- The Warranty ceases if the customer or third party has, under its own initiative , under taken modifications or repairs on equipment without the written consent of Atos

## After sales service:

- We provide our customers a permanent stock of full units and spare parts to serve all types of equipment.
- Call center provide technical support service **24/7**.
- We continue to offer job qualified and equipped maintenance workshops qualifies them for all acts of reforms in record time and the highest degree of efficiency.
- We concluding maintenance contracts for all generators.